

## EXPERIMENT – 6

**Name: Ansh Chughria**

**Batch: T11**

**Roll No: 20**

**AIM:** To study agile methodology and test case management using the JIRA tool. To create a scrum board for scrum master using the JIRA tool.

### **THEORY:**

Jira is a software development tool that helps teams plan, track, and release software projects. It's a popular tool among software development teams.

JIRA is a widely used issue tracking and project management software developed by Atlassian. The theory behind JIRA revolves around several key principles and concepts:

#### **Issue Tracking:**

At its core, JIRA is designed to help teams track tasks, bugs, features, and other issues within a project. It provides a centralized platform for capturing, organizing, and prioritizing these items.

#### **Agile Methodologies:**

JIRA supports agile methodologies such as Scrum and Kanban, enabling teams to plan, track, and deliver work in iterative cycles. Agile principles emphasize collaboration, adaptability, and delivering value to customers.

#### **Workflow Management:**

JIRA allows teams to define custom workflows that represent the lifecycle of an issue from creation to completion. Workflows can include various statuses, transitions, and conditions to reflect the

specific processes followed by the team.

**Customization:**

One of the key strengths of JIRA is its flexibility and customization options. Teams can tailor JIRA to their specific needs by creating custom issue types, fields, workflows, and project configurations.

**Collaboration and Communication:** JIRA facilitates collaboration among team members by providing features such as commenting, mentioning, and attaching files to issues. It also integrates with other Atlassian products like Confluence and Bitbucket for seamless communication and knowledge sharing. Reporting and **Analytics:** JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

# OUTPUT:

The image displays two screenshots of the Jira web interface, showing the 'Backlog' and 'SEP Sprint 1' views for a project named 'SEPM'.

**Top Screenshot: Backlog View**

- URL:** `anishchughria49.atlassian.net/jira/software/projects/SEP/boards/2/backlog`
- Project:** SEPM (Software project)
- Navigation:** Summary, Timeline, Backlog (selected), Board, Forms, Code, Project pages, Add shortcut, Project settings, Archived issues (NEW).
- Backlog Items:**
  - SEP Sprint 1: 13 Feb - 27 Feb (1 issue)
    - SEP-1 backend development (DONE)
  - Backlog (0 issues): Your backlog is empty.
- Buttons:** + Create issue, + Create sprint.

**Bottom Screenshot: SEP Sprint 1 View**

- URL:** `anishchughria49.atlassian.net/jira/software/projects/SEP/boards/2`
- Project:** SEPM (Software project)
- Navigation:** Summary, Timeline, Backlog, Board (selected), Forms, Code, Project pages, Add shortcut, Project settings, Archived issues (NEW).
- Sprint:** SEP Sprint 1 (9 days, Complete sprint)
- Columns:**
  - TO DO: + Create issue
  - IN PROGRESS
  - DONE 1
    - backend development (SEP-1)
- Buttons:** + Create issue, + Create sprint.

Screenshot of the Jira SEP-1 board in the 'backlog' view. The board shows a list of issues under the 'Child issues' section, with a progress bar indicating 66% completion. The issues are:

- SEP-2 establish mvc model (Status: DONE)
- SEP-3 mvc view (Status: TO DO)
- SEP-4 mvc controller (Status: DONE)

The 'Activity' section shows a comment by Ansh Chughria: 'Meet this Friday. Basic implementation of connectivity with the database has to be sorted'.

The right sidebar shows the 'Details' panel for the selected issue, including Assignee (Ansh Chughria), Labels (None), Parent (None), Team (None), Sprint (SEP Sprint 1), Story point estimate (None), Development (Create branch, Create commit), Reporter (Vinay Dawani), and Automation (Rule executions).

SEP Sprint 1 - SEP board - Ser...

anishchughria49@atlassian.net/jira/software/projects/SEP/boards/2?selectedIssue=SEP-2

Jira Your work Projects Filters Dashboards Teams Plans Apps Create Premium trial Search Incognito

SEPM Software project

PLANNING Summary Timeline Backlog Board Forms

DEVELOPMENT Code Project pages Add shortcut Project settings Archived issues NEW

You're in a team-managed project Learn more

SEP Sprint 1

establish mvc model

+ Add Apps

Description Add a description...

Activity Show: All Comments History Work log Summarize Newest first 12

AC Add a comment... Pro tip: press M to comment

Details Improve issue

Assignee Ansh Chughria

Labels None

Parent SEP-1 backend development

Sprint SEP Sprint 1

Story point estimate None

Development Create branch Create commit

Reporter Vinay Dawani

Automation Rule executions

Created 8 minutes ago Updated in 1 second Resolved in 1 second Configure

31°C Smoke 1:16 PM 2/13/2023

SEP Sprint 1 - SEP board - Ser...

anishchughria49@atlassian.net/jira/software/projects/SEP/boards/2

Jira Your work Projects Filters Dashboards Teams Plans Apps Create Premium trial Search Incognito

SEPM Software project

PLANNING Summary Timeline Backlog Board Forms

DEVELOPMENT Code Project pages Add shortcut Project settings Archived issues NEW

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Projects / SEPM

SEP Sprint 1

Q Search AC

9 days Complete sprint

GROUP BY None Insights View settings

TO DO 1

backend development

SEP-1

+ Create issue

IN PROGRESS

DONE ✓

Quickstart

31°C Smoke 1:13 PM 2/13/2023

SEP-111 Software project

PLANNING

- Summary
- Timeline
- Backlog
- Board**
- Forms
- + Add view

DEVELOPMENT

- Code
- Project pages
- Project settings
- Archived issues **NEW**

Projects / SEP-111

## SEP-111 Sprint 2

Verify emails

14 days

Complete sprint

GROUP BY: None

INSIGHTS

VIEW SETTINGS

TO DO

+ Create issue

IN PROGRESS

DONE 2

- Verify Login functionality  
VERIFY FUNCTIONALITIES  
SEP-3
- Verify inbox functionality  
VERIFY FUNCTIONALITIES  
SEP-5

Quickstart

SEP-111 Software project

PLANNING

- Summary**
- Timeline
- Backlog
- Board
- Forms
- + Add view

DEVELOPMENT

- Code
- Project pages
- Project settings
- Archived issues **NEW**

Projects / SEP-111

## Summary

10 completed in the last 7 days

17 updated in the last 7 days

0 due soon in the next 7 days

0 overdue in the last 7 days

Status overview

Get a snapshot of the status of your issues. [View all issues](#)

17 Total issues

To Do: 7

In Progress: 0

Done: 10

Recent activity

Stay up to date with what's happening across the project.

Today

- Ansh Chughria changed the status to Done on SEP-14 - security check with a resolution of 'Done' less than a minute ago
- Ansh Chughria changed the status to In Progress on SEP-14 - security check less than a minute ago
- Ansh Chughria changed the status to Done on SEP-15 - module check with a resolution of 'Done' less than a minute ago

Priority breakdown

Get a holistic view of how work is being prioritized. [See what your team's been focusing on](#)

Types of work

Get a breakdown of issues by their types. [View all items](#)

Type

Distribution

Subtask	71%
Epic	14%
Task	14%
Bug	
Story	

Quickstart

SEPMT11 - Timeline - Jira

anishchughria49@atlassian.net/jira/software/projects/SEPMT/boards/1/timeline

SEPMT11 Software project

PLANNING Summary Timeline Backlog Board Forms Add view DEVELOPMENT Code Project pages Project settings Archived issues NEW

Projects / SEPMT11 Timeline

Q Search timeline AC KC M VD Status category Epic Type View settings

Sprints

- SEPMT-2 Verify functionalities
- SEPMT-3 Verify Login functionalities... DONE
- SEPMT-5 Verify inbox function... DONE
- SEPMT-4 Verify compose function... DONE
- SEPMT-6 verify draft function... DONE
- SEPMT-7 verify sent mail funct... DONE
- SEPMT-13 verification of login with... DONE
- SEPMT-14 security check DONE
- SEPMT-15 module check DONE
- SEPMT-16 Add Responsive DONE
- SEPMT-17 check responsiveness... DONE

+ Create Epic

Today Weeks Months Quarters Quickstart

SEPMT11 - Timeline - Jira

anishchughria49@atlassian.net/jira/software/projects/SEPMT/boards/1/timeline?selectedIssue=SEPMT-16

SEPMT11 Software project

PLANNING Summary Timeline Backlog Board Forms Add view DEVELOPMENT Code Project pages Project settings Archived issues NEW

Projects / SEPMT11 Timeline

Q Search timeline AC KC M VD Status category Epic Type View settings

Sprints

- SEPMT-2 Verify functionalities
- SEPMT-3 Verify Login functionalities... DONE
- SEPMT-5 Verify inbox function... DONE
- SEPMT-4 Verify compose function... DONE
- SEPMT-6 verify draft function... DONE
- SEPMT-7 verify sent mail funct... DONE
- SEPMT-13 verification of login with... DONE
- SEPMT-14 security check DONE
- SEPMT-15 module check DONE
- SEPMT-16 Add Responsive DONE
- SEPMT-17 check responsiveness... DONE

+ Create Epic

Today Weeks Months Quarters

SEPMT-16 Add Responsive

+ Add @ Apps

Done Done Actions Improve issue

Description

Add a description...

Child issues Order by Suggest child issues

- SEPMT-17 check responsiveness for all possible d... DONE

Confluence content

Project plan TRY TEMPLATE

Details

Assignee Ansh Chughria

Labels None

Parent None

Team None

The image displays two screenshots of the Jira software interface, illustrating agile methodology and test case management.

**Top Screenshot: Jira Timeline View**

- Project:** SEPM\_T11
- View:** Timeline
- Sprints:** SEPM Sprint 1, SEPM Sprint 2
- Tasks:** A list of tasks is shown, including "SEPM-2 Verify functionalities", "SEPM-3 Verify Login functionality...", "SEPM-4 Verify compose functionality...", "SEPM-5 Verify inbox function...", "SEPM-6 verify draft function...", "SEPM-7 verify sent mail funct...", "SEPM-13 verification of login with...", "SEPM-14 security check", "SEPM-15 module check", "SEPM-16 Add Responsive", and "SEPM-17 check responsiveness for all possible devices".
- Task Details (Right Panel):** Shows details for "SEPM-17 check responsiveness for all possible devices", including description, assignee (Ansh Chughria), labels, parent (SEPM-16 Add Responsive), team, and sprint.

**Bottom Screenshot: Jira Issue View**

- Project:** SEPM\_T11
- Issue:** Verify Login functionality
- Description:** Add a description...
- Child issues:** A list of child issues is shown, including "SEPM-8 analyze story", "SEPM-9 prepare test case", "SEPM-10 execute test case", "SEPM-11 analyze result", and "SEPM-12 bug tracking".
- Confluence content:** Shows "Product requirements" and a "TRY TEMPLATE" button.
- Activity:** Shows a comment section with a "Pro tip: press ⌘ to comment" message.

**CONCLUSION:** Thus, we have successfully studied agile methodology and test case management using JIRA tool and create scrum board for scrum master using JIRA tool.